2022 Consumer Confidence Report for Public Water System CITY OF PASADENA

This is your water quality report for January 1 to December 31, 2022

For more information regarding this report contact:

and Gulf Coast Aquifer located in Harris County. CITY OF PASADENA provides surface water and ground water from City of Houston

Phone 713-475-4936

Name Terry Bowman

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono 713-477-1511

Definitions and Abbreviations

Definitions and Abbreviations The following tables contain scientific terms and measures, some of which may require explanation

Action Level The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow

Regulatory compliance with some MCLs are based on running annual average of monthly samples

Avg:

Level | Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water

Maximum Contaminant Level or MCL

Level 2 Assessment A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

The highest level of a contaminant that is allowed in drinking water, MCLs are set as close to the MCLGs as feasible using the best available treatment technology

Maximum Contaminant Level Goal or MCLG The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety

Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial

Maximum residual disinfectant level goal or MRDLG; The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to

million fibers per liter (a measure of asbestos)

control microbial contaminants

millirems per year (a measure of radiation absorbed by the body)

nephelometric turbidity units (a measure of turbidity)

OLN

na

mrem MFL

pCi/L picocuries per liter (a measure of radioactivity)

0

Definitions and Abbreviations

ppb: micrograms per liter or parts per billion
ppm: milligrams per liter or parts per million

ppq parts per quadrillion, or picograms per liter (pg/L)

рg

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

parts per trillion, or nanograms per liter (ng/L)

Information about your Drinking Water

human activity. through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or

indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife
- gas production, mining, or farming Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses
- from gas stations, urban storm water runoff, and septic systems Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities

regulations establish limits for contaminants in bottled water which must provide the same protection for public health In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA

information on taste, odor, or color of drinking water, please contact the system's business office. Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more

physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with Hotline (800-426-4791) You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or

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and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead. using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but we cannot control the variety of materials used in If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and

Information about Source Water

CITY OF PASADENA purchases water from CITY OF HOUSTON. CITY OF HOUSTON provides purchase surface water from Trinity River located in Harris County

previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact Terry Bowman 713-475-4936 TCEQ completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is based on this susceptibility and

Coliform Bacteria

0	Maximum Contaminant Level Goal
5% of monthly samples are positive.	Total Coliform Maximum Contaminant Level
1.6	Highest No. of Positive
	Fecal Coliform or E. Coli Maximum Contaminant Level
()	Total Coliform Highest No. of Positive Fecal Coliform or E. Coli Maximum Contaminant Level Maximum Contaminant Level Total No. of Positive E. Coli or Fecal Coliform Samples
į Z	Violation
Naturally present in the environment.	Likely Source of Contamination

Lead and Copper	Date Sampled	MCLG	Action Level (AL) 90th Percentile #Sites Over AL	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/11/2021		1.3	0.288	0	ppm	Z	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing everems
Lead	08/11/2021	0	15	2.4	0	ppb	z	Corrosion of household plumbing systems: Erosion of natural deposits.

2022 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2022	38	0 - 45.8	No goal for the total	60	ppb	z	By-product of drinking water disinfection.

^{*}The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year

(TTHM)	Total Trihalomethanes	
	2022	
	44	
	0 - 48.9	
total	No goal for the	
	80	
	ppb	
	Z	
	By-product of drinking water disinfection.	

^{*}The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2022	ب سد	0 - 3.1	0	10	ppb	z	Erosion of natural deposits; Runoff from orchards, Runoff from glass and electronics production wastes.
Barium	2022	0.136	0.0459 - 0.136	10	2	ppin	z	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Chromium	2022	18.9	0-18.9	100	100	ppb	Z	Discharge from steel and pulp mills; Erosion of natural deposits.
Fluoride	2022	1.62	1.62 - 1.62	4	4.0	ppm	Z	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2022		0 - 1.04	01	01	ppm	z	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrite [measured as Nitrogen]	2022	0.25	0-025	; ;	_	ppın	z	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	2022	3	0-3	50	50	pph	Z	Discharge from petroleum and metal refineries. Erosion of natural deposits; Discharge from mines.

Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Individual Samples	NICLG	MCL	Units	Violation	Violation Likely Source of Contamination
Atrazine	2022	0.15	0 - 0.15	3	J	ppb	z	Runoff from herbicide used on row crops
Dalapon	2022	П	0-1.1	200	200	ppb	z	Runoff from herbicide used on rights of way
Simazine	2022	0.07	0 - 0.07	٠	4	ppb	z	Herbicide runoff

Disinfectant Residual

A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).

Chlorine	Disinfectant Residual
2022	Year
2.5	Average Level
5-4.5	Range of Levels Detected
-1-	MRDL
4	MRDLG
ppın	Unit of Measure
Z	Violation (Y/N)
Water additive used to control microbes.	Violation (Y/N) Source in Drinking Water

Violations

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We failed to collect follow-up samples within 24 hours of learning of the total coliform positive sample. These needed to be tested for feeal indicators from all sources that were being used at the time the positive sample was collected.	03/03/2023	12/09/2022	MONITOR GWR TRIGGERED/ADDITIONAL.
Violation Explanation	Violation End	Violation Begin	Violation Type
Fecal coliforms and E coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, and people with severely compromised immune systems.	ater may be contaminat	sence indicates that the w pecial health risk for infa	Fecal coliforms and E coli are bacteria whose pre headaches, or other symptoms. They may pose a s

Violations

Lead and Copper Rule

The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.

Violation Type V	Violation Begin	Violation End	Violation Explanation
LEAD CONSUMER NOTICE (LCR)	12/30/2021	01/07/2022	We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results.

04/10/2023